

Efficient.
Reliable.
Kool.



A-KOOL

AIR COOLED ENERGY STORAGE SYSTEM

Future-proof your home with cutting-edge technology for long-term energy security.
The Next Generation of Air-Cooled Lithium Battery Cabinets.

A-KOOL 115

1C ENERGY STORAGE SYSTEM

Specifications

BATTERY	Battery Type	7K6 Lithium Iron Phosphate
	Cell Specifications	3.2 V, 150 Ah
	Group Approach	16S
	Battery Capacity	7.68 kWh
SYSTEM	Max. DoD	90%
	Rated Capacity	115 kWh
	Cabinet Max. Slots (Standard)	15 + 1 HV BOX
	Rated Voltage	768 Vdc
	Voltage Range	680 ~ 852 Vdc
	Max. Discharge/Charge Current 1C	1C (150 A)
	Recommended Discharge/Charge Current (Long Cycles)	0.5C (75 A)
	System Short Circuit Current	7000 A
	Battery Short Circuit System	6800 A
	HV BOX Fuses Protection	1000 V – 200 A On Both Poles
	HV BOX Manual Breaker	1500 V – 200 A Type C Automatic Thermal Protection
	HV BOX Contactor Rating Current	350 A On Both Poles
CYCLES	Cabinet Max. Elevation	3000 m
	Number Of Cycles 0.5C	≥ 7000 (0.5C, 90% DOD ,70% SOH)
	Number Of Cycles 1C	≥ 4700 (1C, 90% DOD, 70% SOH)
COMMUNICATION	Battery To Inverter Communication	CAN
	AUX Data Communications-Modbus	RS485
	APP Connectivity	WeCo NooR App
	Cloud Platform	LAN + 4G
BMS PROTECTIONS	SOC Alerts	Built-in
	Cell Over - And Under-Voltage Protection	Built-in
	Overload Protection	Built-in
	High Temperature Alarm	Built-in
	External Stop Button (Contactor Disconnection Impulse)	Built-in
PASSIVE PROTECTIONS	Smoke Alarm	Built-in
	Top Windows Pressure Release	Built-in
	Fire Detection Sensor	Built-in
	Fire Fighting System/Gas Suppression Aerosol	Built-in
SHELF-LIFE ENVIRONMENT	DC Protection	Built-in
	Storage Max. Humidity	RH ≤95% (No Condensation)
	Storage Temperature	Less than 3 months: 0 ~ 45 °C (SOC: 20% ~ 50%)
	Shelf Life Without Inspections	> 3 months: 15 ~ 35 °C (SOC: 20% ~ 50%)
	Storage Elevation	≤ 3000 m
	Dimensions (W x D x H) (mm)	1130 x 1300 x 2366
BASIC PARAMETERS	Weight	1650 kg
	Cabinet Design Working Temperature Range	-20 °C +45 °C (Derating due to Defrost Cycles to be considered)
	Recommended Operative Temperature Range	-10 °C +45 °C (Derating ad Defrost Cycles to be considered during operations, could cause power reductions)
	Defrost Coil Resistor For Extreme Low Temperature	220V AC Heating Resistor For Defrosting Function (Optional)
	IP Rating	IP55
	Cooling Method	Heat Pump and Air conditioner
	A/C Stand By Consumption (Inactive Compressor Status Via EMS)	50 W
	A/C Max. Cooling Power	1200 W
	A/C Max. Heating Power	2500 W
	A/C Consumption With Compressor OFF And Fan Running For Air Circulation Only	250 W
	HV BOX Self Consumption	15 W
	HV BOX Consumption With All Fan Running Full Speed	75 W
	Energy Saving Programming Mode	Scheduling via EMS for Full Energy Saving
	Coating	Standard Outdoor Painting
	Shipping Method	Batteries to be installed on site

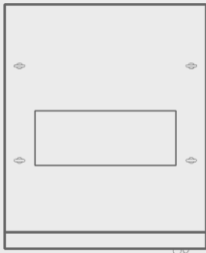
The above-mentioned temperatures are limited to the BMS ranges, such values may not be covered by the performance warranty. We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions. No part of this document can be copied or reproduced without WeCo written permission. All data is subject to change without prior notice.

A-KOOL 241

0.5C ENERGY STORAGE SYSTEM

Specifications

	241 kWh
BATTERY	Battery Type
	16K0 Lithium Iron Phosphate
	Cell Specifications
	314 Ah @ 3.2 V
	Pack Construction
SYSTEM	16S
	Battery Capacity
	16.1 kWh
	Max. DOD
	95%
	Rated Capacity
	241.5 kWh
	Cabinet Max. Slots (Standard)
	15 + 1 HV BOX
	Rated Voltage
CYCLES	768 Vdc
	Voltage Range
	680 ~ 852 Vdc
	Peak Current
	1C (314 A)
	Recommended Discharge/Charge Current (Peak)
	0.5C
	System Short Circuit Current
	9300 A
	Battery Short Circuit System
COMMUNICATION	9150 A
	HV BOX Fuses Protection
	1000 V - 400 A On Both Poles
	1500 V - 400 A 2-Pole
	Type C Automatic Thermal Protection
	HV BOX Manual Breaker Rating
	400 A 2-Pole
	HV BOX BMS Controlled Contactor Current Rating
	3000 m
	Cabinet Max. Elevation
BMS PROTECTIONS	Number Of Cycles @ 0.5C
	≥ 8000 (90% DOD, 70% SOH)
	Battery To Inverter Communication
	CAN
	AUX Data Communications-MODBUS
PASSIVE PROTECTIONS	RS485
	APP Connectivity
	WeCo NooR App
	Cloud Platform
	LAN + 4G
STORAGE REQUIREMENTS	SOC Alerts
	Built-in
	Cell Over - And Under-Voltage Protection
	Built-in
	Overload Protection
BASIC PARAMETERS	Built-in
	High/Low Temperature Alarm
	Built-in
	External Stop Button
	Built-in
BASIC PARAMETERS	(Contactor Disconnection Impulse)
	Built-in
	Smoke Sensor
	Built-in
	Over-Pressure Relief Top Port
BASIC PARAMETERS	Built-in
	Fire Fighting System
	Built-in
	DC Fuse Protection (Pack Level & HV BOX)
	Built-in
BASIC PARAMETERS	Storage Max. Humidity
	RH ≤ 95% (No Condensation)
	Storage Temperature (20% < SOC < 50%)
	< 3 Months: 0 < T < 45 °C
	Shelf Life Without Inspections (20% < SOC < 50%)
BASIC PARAMETERS	> 3 Months: 15 < T < 35 °C
	Storage Elevation
	≤ 3000 m
	Dimensions (W x D x H) (mm)
	1190 x 1500 x 2366
BASIC PARAMETERS	Weight
	2500 kg
	Cabinet Design Working Temperature Range
	-20 °C < T < +50 °C
	(Derating due to Defrost Cycles to Be Considered)
BASIC PARAMETERS	Recommended Temperature Range
	-10 °C +45 °C
	(Derating ad Defrost Cycles to be considered during operations, could cause power reductions)
	IP Rating
	IP55
BASIC PARAMETERS	Cooling Method
	Heat Pump & Air Conditioning
	A/C Consumption @ Max. Cooling Power
	1200 W
	A/C Consumption @ Max. Heating Power
BASIC PARAMETERS	2500 W
	HV BOX Self Consumption
	15 W
	HV BOX Consumption With All Fans Running Full Speed
	75 W
BASIC PARAMETERS	Energy Saving Programming Mode
	Scheduling via EMS for Full Energy Saving
	Coating
	Standard Outdoor Painting
	(Not for Marine Applications)
BASIC PARAMETERS	Shipping Method
	Assembled



1500mm
(59.0 in)



2366mm
(94.15 in)

1190mm
(46.90in)

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